

- * SWBAT define and find "Net Force"
- * SWBAT apply the equilibrium rule.

Sep 6-2:31 PM

SECA Physics
Tuesday 17 September 2013

Welcome!!!

H. Leslie Grebe

New people?

- * Pick up:
 - small slip of paper (for later)

Opening Activity:

Discuss with a neighbor:

My son and daughter are moving my imaginary piano for me. My son pushes with a force of 10N, my daughter pushes with 5N. What is the **net force** if they are both pushing the piano south down the hallway?



S N NORTH

What three parts do we need in the answer?

SIZE, UNITS, DIRECTION

$$\begin{array}{r}
 \leftarrow 10\text{N} \quad 5\text{N} \rightarrow \\
 \begin{array}{r}
 +5 \\
 -10 \\
 \hline
 -5 \\
 \downarrow \\
 5\text{N}
 \end{array}
 \end{array}$$

Sep 7-7:04 AM

A force is...

A vector has...

Big Idea for the Day:

What the heck is the Equilibrium Rule?

↳ BALANCED OR STEADY

EQUILIBRIUM, IF...

→ THE SUM OF THE FORCES EQUALS ZERO. ²⁷

$$\Sigma \vec{F} = 0$$

$$\Sigma F_{up} = \Sigma F_{down}$$

Let's do first 3 together...

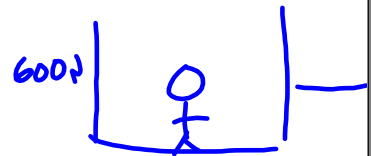
Sep 16-2:23 PM

Worksheet:

* Work on it alone or with one other person of your choosing. (Do both sides!) ~~✗~~ SKIP LAST Q

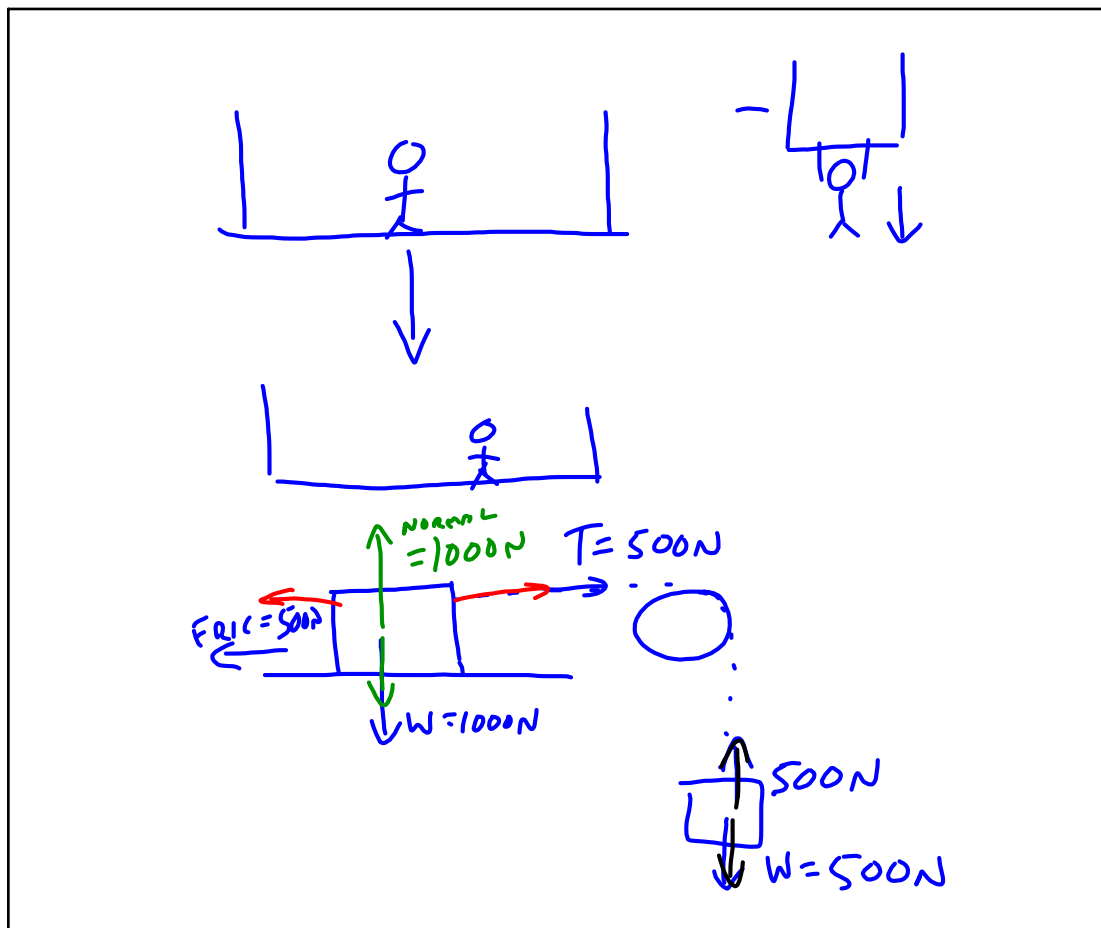
* Ask! if you're not sure because it will be part of today's 3 questions.

* When you're done:
Do you know you're grade?
Check SchoolView.
New grading period starts soon.



$$\Sigma F_{up} = \Sigma F_{down} \quad \text{GRAVITY}$$

Sep 17-8:21 AM



Sep 17-8:40 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

Your can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

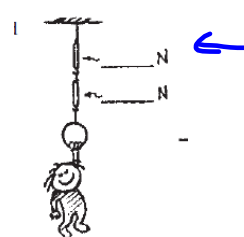
Sep 9-7:32 AM

1. The Equilibrium Rule says that in equilibrium the sum of the forces equals 0.

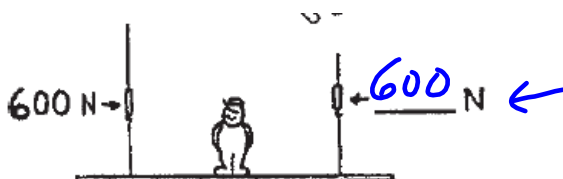
$$\sum F = \text{zero}$$

2. Nellie weighs 300N. What is the reading on the top scale?

300N



3. Burl is standing in the exact middle of the board. What is the reading on the other scale?



Sep 14-7:28 AM